

IN THE CLAIMS:

1 (currently amended). A mist supply mechanism for a rotary tool for supplying a mist under pressure to a rotary tool (18) disposed around a rotating shaft (10), and implementing cooling and/or lubricating of the rotary tool (18) during workpiece-machining, wherein

rotary tool (18) is disposed around a sleeve (16) with a required length circumferentially engaging the rotating shaft (10);

a plurality of mist supply passages (38) are provided which consist of long groove sections concaved on the outer surface of the sleeve (16) and extending in the axial direction are provided on the sleeve (16); and

the mist is supplied to the rotary tool (18) through the mist supply passage (38).

2 (currently amended). [[The]] A mist supply mechanism for a rotary tool according to Claim 1, wherein the plurality of mist supply passages (38) are long groove sections which are concaved on the outer surface of the sleeve (16) and extend in the axial direction for supplying a mist under pressure to a rotary tool (18) disposed around a rotating shaft (10), and implementing cooling and/or lubricating of the rotary tool (18) during workpiece-machining, wherein

the rotary tool (18) is disposed around a sleeve (16) with a required length circumferentially engaging the rotating shaft (10);

a plurality of mist supply passages (38) are provided which consist of long groove sections concaved on the inner surface of the sleeve (16) and extending in the axial direction; and

the mist is supplied to the rotary tool (18) through the mist supply passage (38).

3 (currently amended). [[The]] A mist supply mechanism for a rotary tool according to Claim 1, wherein the plurality of mist supply passages (38) are long groove sections which are concaved on the inner surface of the sleeve (16) and extend in the axial direction for supplying a mist under pressure to a rotary tool (18) disposed around a rotating shaft (10), and implementing cooling and/or lubricating of the rotary tool (18) during workpiece-machining, wherein

the rotary tool (18) is disposed around a sleeve (16) with a required length circumferentially engaging the rotating shaft (10);

a plurality of mist supply passages (38) are provided which are tubular passages perforated at the cylindrical thick section of the sleeve (16) and extending in the axial direction, and have one end communicating with a mist supply source and the other end being closed as a closed-end section;

each one end of a plurality of passage ports (40) axially perforated at the cylindrical thick section correspondingly communicates with the mist supply passage (38); and the mist is supplied to the rotary tool (18) through the mist supply passage (38).

4 (cancelled).

5 (cancelled).

IN THE SPECIFICATION

Paragraph bridging pages 3 and 4 is amended as follows:

In order to overcome the above problems and achieve the preset object, the present invention comprises a mist supply mechanism for supplying mist under pressure to a rotary tool disposed around a rotating shaft, and implementing cooling and/or lubricating of the rotary tool during workpiece-machining, ~~characterized in that wherein~~

the rotary tool is disposed around a sleeve (16) with a required length circumferentially engaging with the rotating shaft (10);

a plurality of mist supply passages extending in the axial direction are provided on the sleeve; and the mist is supplied to the rotary tool through the mist supply passage (38) are provided which consist of long groove sections concaved on the outer surface of the sleeve (16) and extending in the axial direction; and

the mist is supplied to the rotary tool (18) through the mist supply passage (38).

In order to overcome the above problems and suitably achieve the anticipated object, the other invention of this application comprises

a mist supply mechanism for a rotary tool for supplying a mist under pressure to a rotary tool (18) disposed around a rotating shaft (10), and implementing cooling and/or lubricating of the rotary tool (18) during workpiece-machining, wherein

the rotary tool (18) is disposed around a sleeve (16) with a required length circumferentially engaging the rotating shaft (10);

a plurality of mist supply passages (38) are provided which consist of long groove sections concaved on the inner surface of the sleeve (16) and extending in the axial direction; and

the mist is supplied to the rotary tool (18) through the mist supply passage (38).

In order to overcome the above problems and suitably achieve the anticipated object, the another invention of this application comprises

a mist supply mechanism for a rotary tool for supplying a mist under pressure to a rotary tool (18) disposed around a rotating shaft (10), and implementing cooling and/or lubricating of the rotary tool (18) during workpiece-machining, wherein

the rotary tool (18) is disposed around a sleeve (16) with a required length

circumferentially engaging the rotating shaft (10);

a plurality of mist supply passages (38) are provided which are tubular passages perforated at the cylindrical thick section of the sleeve (16) and extending in the axial direction, and have one end communicating with a mist supply source and the other end being closed as a closed-end section;

each one end of a plurality of passage ports (40) axially perforated at the cylindrical thick section correspondingly communicates with the mist supply passage (38); and the mist is supplied to the rotary tool (18) through the mist supply passage (38).